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RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/996,263

DATE: 01/16/2002  
TIME: 18:19:46

Input Set : N:\CrF3\RULE60\09996263.raw  
Output Set: N:\CRF3\01162002\I996263.raw

## SEQUENCE LISTING

3 (1) GENERAL INFORMATION:  
4 (i) APPLICANT: Phillip Dan Cook  
5 Andrew Kawasaki  
6 (ii) TITLE OF INVENTION: Sugar Modified Oligonucleotides  
7 (iii) NUMBER OF SEQUENCES: 37  
8 (iv) CORRESPONDENCE ADDRESS:  
9 (A) ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz and Norris  
10 (B) STREET: One Liberty Place - 46th Floor  
11 (C) CITY: Philadelphia  
12 (D) STATE: PA  
13 (E) COUNTRY: U.S.A.  
14 (F) ZIP: 19103  
15 (v) COMPUTER READABLE FORM:  
16 (A) MEDIUM TYPE: 3.5 inch disk, 720 Kb  
17 (B) COMPUTER: IBM PC compatible  
18 (C) OPERATING SYSTEM: PC-DOS/MS-DOS  
19 (D) SOFTWARE: WordPerfect 5.1  
20 (vi) CURRENT APPLICATION DATA:  
21 (A) APPLICATION NUMBER: US/09/996,263  
22 (B) FILING DATE: 28-Nov-2001  
23 (C) CLASSIFICATION:  
24 (vii) PRIOR APPLICATION DATA:  
25 (A) APPLICATION NUMBER: 08/471,973  
26 (B) FILING DATE:  
27 (viii) ATTORNEY/AGENT INFORMATION:  
28 (A) NAME: Joseph Lucci  
29 (B) REGISTRATION NUMBER: 33,307  
30 (C) REFERENCE/DOCKET NUMBER: ISIS-2005  
31 (ix) TELECOMMUNICATION INFORMATION:  
32 (A) TELEPHONE: 215-568-3100  
33 (B) TELEFAX: 215-568-3439  
34 (2) INFORMATION FOR SEQ ID NO: 1:  
35 (i) SEQUENCE CHARACTERISTICS:  
36 (A) LENGTH: 17 bases  
37 (B) TYPE: nucleic acid  
38 (C) STRANDEDNESS: single  
39 (D) TOPOLOGY: linear  
40 (iv) ANTI-SENSE: yes  
41 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:  
42 CCACACCGAC GGCGCC 17  
43 (2) INFORMATION FOR SEQ ID NO: 2:  
44 (i) SEQUENCE CHARACTERISTICS:  
45 (A) LENGTH: 20 bases  
46 (B) TYPE: nucleic acid  
47 (C) STRANDEDNESS: single  
48 (D) TOPOLOGY: linear

ENTERED

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61 (iv) ANTI-SENSE: yes  
62 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:  
64 CTTATATTCC GTCATCGCTC 20  
66 (2) INFORMATION FOR SEQ ID NO: 3:  
67 (i) SEQUENCE CHARACTERISTICS:  
68 (A) LENGTH: 20 bases  
69 (B) TYPE: nucleic acid  
70 (C) STRANDEDNESS: single  
71 (D) TOPOLOGY: linear  
72 (iv) ANTI-SENSE: yes  
73 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:  
75 TCCGTCATCG CTCCTCAGGG 20  
77 (2) INFORMATION FOR SEQ ID NO: 4:  
78 (i) SEQUENCE CHARACTERISTICS:  
79 (A) LENGTH: 20 bases  
80 (B) TYPE: nucleic acid  
81 (C) STRANDEDNESS: single  
82 (D) TOPOLOGY: linear  
83 (iv) ANTI-SENSE: yes  
84 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:  
86 AAAACGTCAG CCATGGTCCC 20  
88 (2) INFORMATION FOR SEQ ID NO: 5:  
89 (i) SEQUENCE CHARACTERISTICS:  
90 (A) LENGTH: 18 bases  
91 (B) TYPE: nucleic acid  
92 (C) STRANDEDNESS: single  
93 (D) TOPOLOGY: linear  
94 (iv) ANTI-SENSE: yes  
95 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:  
97 TTCTCGCTGG TGAGTTTC 18  
99 (2) INFORMATION FOR SEQ ID NO: 6:  
100 (i) SEQUENCE CHARACTERISTICS:  
101 (A) LENGTH: 17 bases  
102 (B) TYPE: nucleic acid  
103 (C) STRANDEDNESS: single  
104 (D) TOPOLOGY: linear  
105 (iv) ANTI-SENSE: yes  
106 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:  
108 TCTCGCTGGT GAGTTTC 17  
110 (2) INFORMATION FOR SEQ ID NO: 7:  
111 (i) SEQUENCE CHARACTERISTICS:  
112 (A) LENGTH: 20 bases  
113 (B) TYPE: nucleic acid  
114 (C) STRANDEDNESS: single  
115 (D) TOPOLOGY: linear  
116 (iv) ANTI-SENSE: yes  
117 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:  
119 TCCCGCCTGT GACATGCATT 20  
121 (2) INFORMATION FOR SEQ ID NO: 8:

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122 (i) SEQUENCE CHARACTERISTICS:  
123 (A) LENGTH: 20 bases  
124 (B) TYPE: nucleic acid  
125 (C) STRANDEDNESS: single  
126 (D) TOPOLOGY: linear  
127 (iv) ANTI-SENSE: yes  
128 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:  
130 TCCTCCTCCC CGCGGCGGGT 20  
132 (2) INFORMATION FOR SEQ ID NO: 9:  
133 (i) SEQUENCE CHARACTERISTICS:  
134 (A) LENGTH: 20 bases  
135 (B) TYPE: nucleic acid  
136 (C) STRANDEDNESS: single  
137 (D) TOPOLOGY: linear  
138 (iv) ANTI-SENSE: yes  
139 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:  
141 CTCGCCCGCT CCTCCTCCCC 20  
143 (2) INFORMATION FOR SEQ ID NO: 10:  
144 (i) SEQUENCE CHARACTERISTICS:  
145 (A) LENGTH: 20 bases  
146 (B) TYPE: nucleic acid  
147 (C) STRANDEDNESS: single  
148 (D) TOPOLOGY: linear  
149 (iv) ANTI-SENSE: yes  
150 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:  
152 TTCTCGCCCG CTCCCTCTCC 20  
154 (2) INFORMATION FOR SEQ ID NO: 11:  
155 (i) SEQUENCE CHARACTERISTICS:  
156 (A) LENGTH: 20 bases  
157 (B) TYPE: nucleic acid  
158 (C) STRANDEDNESS: single  
159 (D) TOPOLOGY: linear  
160 (iv) ANTI-SENSE: yes  
161 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:  
163 TTCTCCTCCT CCCCTGGCAG 20  
165 (2) INFORMATION FOR SEQ ID NO: 12:  
166 (i) SEQUENCE CHARACTERISTICS:  
167 (A) LENGTH: 20 bases  
168 (B) TYPE: nucleic acid  
169 (C) STRANDEDNESS: single  
170 (D) TOPOLOGY: linear  
171 (iv) ANTI-SENSE: yes  
172 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:  
174 CTGGCTTCTC CTCCTCCCC 20  
176 (2) INFORMATION FOR SEQ ID NO: 13:  
177 (i) SEQUENCE CHARACTERISTICS:  
178 (A) LENGTH: 20 bases  
179 (B) TYPE: nucleic acid  
180 (C) STRANDEDNESS: single

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181 (D) TOPOLOGY: linear  
182 (iv) ANTI-SENSE: yes  
183 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:  
185 CCTGCTGGCT TCTCCTCCTC 20  
187 (2) INFORMATION FOR SEQ ID NO: 14:  
188 (i) SEQUENCE CHARACTERISTICS:  
189 (A) LENGTH: 20 bases  
190 (B) TYPE: nucleic acid  
191 (C) STRANDEDNESS: single  
192 (D) TOPOLOGY: linear  
193 (iv) ANTI-SENSE: yes  
194 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:  
196 TCTGGCGCTG CACCACTCTC 20  
198 (2) INFORMATION FOR SEQ ID NO: 15:  
199 (i) SEQUENCE CHARACTERISTICS:  
200 (A) LENGTH: 20 bases  
201 (B) TYPE: nucleic acid  
202 (C) STRANDEDNESS: single  
203 (D) TOPOLOGY: linear  
204 (iv) ANTI-SENSE: yes  
205 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:  
207 UAGGAGAUGC CUAAGGCUUU 20  
209 (2) INFORMATION FOR SEQ ID NO: 16:  
210 (i) SEQUENCE CHARACTERISTICS:  
211 (A) LENGTH: 20 bases  
212 (B) TYPE: nucleic acid  
213 (C) STRANDEDNESS: single  
214 (D) TOPOLOGY: linear  
215 (iv) ANTI-SENSE: yes  
216 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:  
218 GCUAUGUCGA CACCCAAUUC 20  
220 (2) INFORMATION FOR SEQ ID NO: 17:  
221 (i) SEQUENCE CHARACTERISTICS:  
222 (A) LENGTH: 20 bases  
223 (B) TYPE: nucleic acid  
224 (C) STRANDEDNESS: single  
225 (D) TOPOLOGY: linear  
226 (iv) ANTI-SENSE: yes  
227 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:  
229 CAUAGGAGAU GCCUAAGGCT 20  
231 (2) INFORMATION FOR SEQ ID NO: 18:  
232 (i) SEQUENCE CHARACTERISTICS:  
233 (A) LENGTH: 21 bases  
234 (B) TYPE: nucleic acid  
235 (C) STRANDEDNESS: single  
236 (D) TOPOLOGY: linear  
237 (iv) ANTI-SENSE: yes  
238 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:  
240 GCGUUTGCTC TTCTTCUUGC G 21

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242 (2) INFORMATION FOR SEQ ID NO: 19:  
243 (i) SEQUENCE CHARACTERISTICS:  
244 (A) LENGTH: 21 bases  
245 (B) TYPE: nucleic acid  
246 (C) STRANDEDNESS: single  
247 (D) TOPOLOGY: linear  
248 (iv) ANTI-SENSE: yes  
249 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:  
251 GCGUUUGCTC TTCTUCUUGC G 21  
253 (2) INFORMATION FOR SEQ ID NO: 20:  
254 (i) SEQUENCE CHARACTERISTICS:  
255 (A) LENGTH: 20 bases  
256 (B) TYPE: nucleic acid  
257 (C) STRANDEDNESS: single  
258 (D) TOPOLOGY: linear  
259 (iv) ANTI-SENSE: yes  
260 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:  
262 UGCATCCCCC AGGCCACCAT 20  
264 (2) INFORMATION FOR SEQ ID NO: 21:  
265 (i) SEQUENCE CHARACTERISTICS:  
266 (A) LENGTH: 15 bases  
267 (B) TYPE: nucleic acid  
268 (C) STRANDEDNESS: single  
269 (D) TOPOLOGY: linear  
270 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 21:  
271 CGACTATGCA AGTAC 15  
273 (2) INFORMATION FOR SEQ ID NO: 22:  
274 (i) SEQUENCE CHARACTERISTICS:  
275 (A) LENGTH: 17 bases  
276 (B) TYPE: nucleic acid  
277 (C) STRANDEDNESS: single  
278 (D) TOPOLOGY: linear  
279 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 22:  
281 CTCGTACCTT CCGGTCC 17  
283 (2) INFORMATION FOR SEQ ID NO: 23:  
284 (i) SEQUENCE CHARACTERISTICS:  
285 (A) LENGTH: 12 bases  
286 (B) TYPE: nucleic acid  
287 (C) STRANDEDNESS: single  
288 (D) TOPOLOGY: linear  
289 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 23:  
291 GAGCUCCCCAG GC 12  
293 (2) INFORMATION FOR SEQ ID NO: 24:  
294 (i) SEQUENCE CHARACTERISTICS:  
295 (A) LENGTH: 15 bases  
296 (B) TYPE: nucleic acid  
297 (C) STRANDEDNESS: single  
298 (D) TOPOLOGY: linear  
299 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 24:

**VERIFICATION SUMMARY**

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L:27 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:28 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]